

AMENDMENTS

In the Claims:

Please **amend** Claims 1, 3, 10, 12, 13, 18, 25-27, 40-42, and 47 by substituting the following:

1. (Amended) A waveform data analysis method comprising:

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a step of designating a waveform type from among a plurality of waveform types and performing a filter process for removing, from original waveform data, a predetermined frequency component corresponding to the designated waveform type; and

a step of determining dividing positions of the original waveform data on the basis of envelope levels of the waveform data having been subjected to said filter process.

3. (Amended) A waveform data analysis method comprising:

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a step of performing a filter process for removing components of a predetermined frequency band from original waveform data;

a step of detecting an envelope of the waveform data having been subjected to the filter process;

a step of calculating differential values of the envelope of the waveform data detected by said step of detecting; and

a step of determining dividing positions of the original waveform data on the basis of the differential values of the envelope calculated by said step of calculating.

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10. (Amended) A waveform data analysis apparatus comprising:

a storage device that stores original waveform data; and

a processor coupled with said storage device and adapted to:

designate a waveform type from among a plurality of waveform types;

read out the original waveform data from said storage device and perform a filter process for removing, from the original waveform data, a predetermined frequency component corresponding to the designated waveform type; and

determine dividing positions of the original waveform data on the basis of envelope levels of the waveform data having been subjected to said filter process.

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12. (Amended) A waveform data analysis apparatus comprising:

a storage device that stores original waveform data; and

a processor coupled with said storage device and adapted to:

read out the original waveform data from said storage device and perform a filter process for removing components of a predetermined frequency band from the original waveform data;

detect an envelope of the waveform data having been subjected to the filter process;

calculate differential values of the envelope of the waveform data detected; and

determine dividing positions of the original waveform data on the basis of the differential values of the enveloped calculated.

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13. (Amended) A waveform data analysis method comprising:

a step of determining presumed beat positions in original waveform data;

a step of detecting rise positions in the original waveform data within predetermined ranges corresponding to the presumed beat positions determined by said step of determining, wherein one rise position is detected for each of the predetermined ranges; and

a step of analyzing the rise portions of the original waveform data, detected by said step of detecting, and thereby extracting one of the rise positions as a dividing position of the original waveform data.

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18. (Amended) A waveform data analysis method comprising:

a step of detecting a plurality of rise positions in original waveform data;

a step of selecting one or more rise positions from among the plurality of rise positions detected by said step of detecting within a predetermined range of the original waveform data; and

a step of analyzing the one or more rise positions, selected by said step of selecting, and thereby determining dividing positions of the original waveform data, wherein one rise position is detected for each of the predetermined ranges.

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25. (Amended) A waveform data analysis apparatus comprising:

a storage device that stores original waveform data; and

a processor coupled with said storage device and adapted to:

determine presumed beat positions in the original waveform data;

detect rise positions in the original waveform data within predetermined ranges corresponding to the determined presumed beat positions; and

analyze the detected rise portions of the original waveform data and extract any one of the detected rise positions as a dividing position of the original waveform data.

26. (Amended) A waveform data analysis apparatus comprising:

a storage device that stores original waveform data; and

a processor coupled with said storage device and adapted to:

detect a plurality of rise positions in the original waveform data;

select one or more rise positions from among the plurality of rise positions detected within a predetermined range of the original waveform data; and

analyze the one or more selected rise positions and thereby determine dividing positions of the original waveform data.

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27. (Amended) A waveform data analysis method comprising:

a step of reproducing automatic performance information;

a step of storing waveform data in parallel with reproduction of the automatic performance information; and

a step of storing a series of synchronization control data indicative of timing relationship between an automatic performance to be executed successively and waveform data to be sampled successively, in correspondence with storage of the waveform data.

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40. (Amended) A waveform data analysis apparatus comprising:

a storage device;

a reproduction device that reproduces automatic performance information;

an input device that inputs waveform data to be stored into said waveform data analysis apparatus; and

a control device coupled with said storage device, said reproduction device and said input device, said control device being adapted to:

store the waveform data in said storage device in parallel with reproduction of the automatic performance information, and perform control to store, in said storage device, a series of synchronization control data indicative of timing relationship between an automatic performance to be executed successively and waveform data to be sampled successively in correspondence with storage of the waveform data.

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41. (Amended) A waveform data processing method comprising:

a step of dividing original waveform data into a plurality of partial waveform data;

a step of adding waveform data of an additional section to each of the partial waveform data divided from the original waveform data by said step of dividing, the waveform data of the additional section attenuating, with passage of time, from an initial value equal to an envelope level at an end of a corresponding one of the partial waveform data; and

a step of storing, in a memory, each of the partial waveform data having the waveform data of the additional section added thereto.

42. (Amended) A waveform data processing method as claimed in claim 41, further comprises a step of detecting an attenuation rate of the original waveform data in the selected section, wherein the waveform data of the additional section are imparted with attenuation characteristics based on the attenuation rate detected by said step of detecting.

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47. (Amended) A waveform data analysis apparatus comprising:

a storage device that stores original waveform data; and

a processor coupled with said storage device and adapted to:

divide original waveform data into a plurality of partial waveform data;

add waveform data of an additional section to each of the partial waveform data, the waveform data of the additional section attenuating, with passage of time, from an initial value equal to an envelope level at an end of a corresponding one of the partial waveform data; and

store, in a memory, each of the partial waveform data having the waveform data of the additional section added thereto.

Please add new Claim 49:

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49. (New) A waveform data analysis method of claim 1, wherein the plurality of waveform types include at least a sustain-sound-related waveform type and a percussion-sound-related waveform type.